

Press Release

InfraTec GmbH Infrarotsensorik und Messtechnik

Dresden, 2026-06-30

Online Event: “Spectral Thermography – Basics and Applications” Precision measurement using spectral IR thermography

In our free of charge online event, “Spectral Thermography – Basics and Applications”, we introduce the different wavelength ranges in which infrared thermography enables precise temperature measurement of objects made from a wide variety of materials. We will take a closer look at short-wave infrared (SWIR), mid-wave infrared (MWIR), and long-wave infrared (LWIR). You will also learn about the additional possibilities offered by spectral thermography and the requirements this places on infrared cameras and software.

Online Event “Spectral Thermography – Basics and Applications”

Date: Wednesday, September 2, 2026

Time: 10:00 AM – 12:00 PM (CEST)

Language: Englisch

Price: Free of charge

Registration:

<https://attendee.gotowebinar.com/register/263749355066332506?source=PR-extern>

Spectral IR thermography uses adapted wavelength windows and therefore enables precise temperature measurements considering the specific IR properties of the object and the measurement situation. Selecting suitable spectral filters, for example, allows temperature measurement of objects behind a glass pane, or even specifically of the glass surface itself.

Fields for spectral thermography

Spectral filters select radiation in defined infrared ranges to consider the specific IR properties of the respective measurement situation. This allows any interfering background radiation to be suppressed and measurement errors to be avoided.

However, not all IR-protective windows offer, for instance, complete IR transmission and thus have unwanted radiometric influence. This can be masked by adapted spectral filters to ensure a correct radiometric measurement of an object behind the window. Likewise, interfering radiation from flames can be suppressed in order to measure “through the flame”. In contrast, gases in a flame can be identified with the help of spectral filters.

Information: 1.822 characters (incl. spaces)

About InfraTec

The InfraTec infrared sensor and measurement technology company was founded in 1991 and has its headquarters in Dresden, Germany. The privately held company employs more than 240 employees and has its own design, manufacturing and distribution capabilities.

With its infrared measurement business unit, InfraTec is one of the leading suppliers of commercial thermal

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imaging technology. In addition to the high-end camera series ImageIR® and the camera series TarisIR® and VarioCAM® High Definition, InfraTec offers turnkey thermographic automation solutions e.g. for industry processes, non-destructive testing and fire detection and prevention.

The infrared sensor division produces custom-made components – especially pyroelectrical infrared detectors – for clients worldwide. The product range includes analogue single and multi-channel detectors as well as digital multi-channel detectors (PyriQ). The detectors are used, for example, in gas analysis, fire and flame sensors and spectroscopy.

Contact

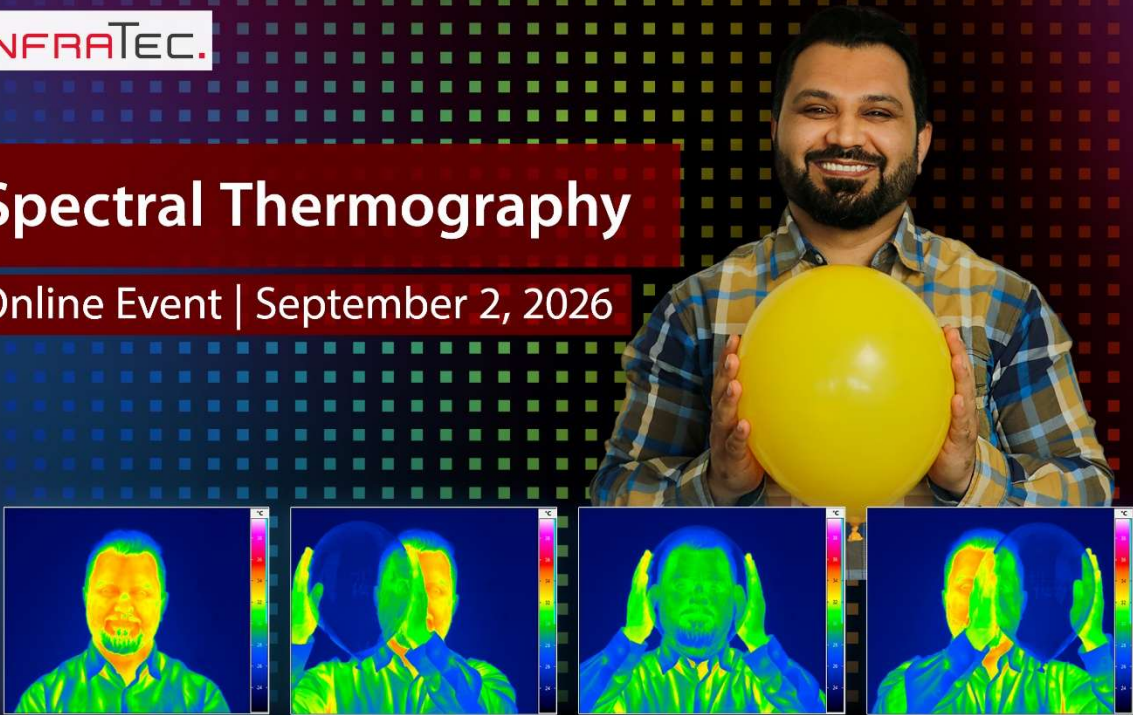
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Spectral Thermography

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